



NC/PMC/W-13/2018-19/DW-C1

Date: 18-03-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Comprehensive development work in ward no 13.}

Ref.: Material testing/W-13/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE I.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	162 min	Shall not be less than 30 min
2	Final setting time	259 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.92 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	1.87 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.46 N/Sq mm	Shall not be less than 27 N/Sqmm

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For Newzen Consultants Bangalore

Proprietor



NC/PMC/W-13/2018-19/DW-C2

Date: 21-03-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Comprehensive development work in ward no 13.}

Ref.: Material testing/W-13/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	174 min	Shall not be less than 30 min
2	Final setting time	281 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.04 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	1.97 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.71 N/Sq mm	Shall not be less than 27 N/Sqmm

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NC/PMC/W-13/2018-19/DW-S1

Date: 21-03-2019

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 and 12 mm TMT Steel.

{Project*: Comprehensive development work in ward no 13.}

Ref.: Material testing/W-13/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE - 1

SL No	Details	For 10 mm		For 12 mm	
		Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	10.0 mm	10.0 mm	12.0 mm	12.0 mm
02	Observed Wt/m Length Kg/m	0.614	0.567	0.892	0.834
03	Proof stress/Yield stress, f_y , N/mm ²	532.0	500.0	540.0	500.0
04	Bend/ Re bend Test	Ok	---	Ok	---
05	Percentage of Elongation, %	22.30	12.00	21.60	12.00
06	Ultimate Tensile Strength N/mm ²	639.0	545.0	645.0	545.0

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NC/PMC/W-13/2018-19/DW-CB3

Date: 05-04-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Comprehensive development work in ward no 13.}

Ref.: Material testing/W-13/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	29-03-19	05-04-19	07	22500	390	17.33	16.81
	002	"	"	"	"	380	16.89	
	003	"	"	"	"	365	16.22	

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For Newzen Consultants Bangalore

Proprietor



Date: 26-04-2019

NC/PMC/W-13/2018-19/DW-CB3a

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Comprehensive development work in ward no 13.}

Ref.: Material testing/W-13/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	29-03-19	26-04-19	28	22500	500	22.22	22.44
	002	"	"	"	"	515	22.89	
	003	"	"	"	"	500	22.22	

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NC/PMC/W-13/2018-19/DW-PCC2

Date: 05-04-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Comprehensive development work in ward no 13.}

Ref.: Material testing/W-13/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
		Single size	Graded
40mm	100.00	100.00	100.00
20mm	97.30	85-100	95 - 100
10mm	51.75	0 - 20	25 - 55
4.75mm	7.85	0 - 5	0 - 10

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	95.65	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	89.20	60-95	75-100	85-100	
01.18	74.05	30-70	55-90	75-100	
600.mic	51.90	15-34	35-59	60-79	
300.mic	12.30	5-20	8-30	12-40	
150.mic	8.70	0-10	0-10	0-10	

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NC/PMC/W-13/2018-19/DW-PCC3

Date: 09-04-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Comprehensive development work in ward no 13.}

Ref.: Material testing/W-13/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
		Single size	Graded
40mm	100.00	100.00	100.00
20mm	98.05	85-100	95 - 100
10mm	41.40	0 - 20	25 - 55
4.75mm	8.70	0 - 5	0 - 10

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.15	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	85.40	60-95	75-100	85-100	
01.18	77.90	30-70	55-90	75-100	
600.mic	51.60	15-34	35-59	60-79	
300.mic	24.35	5-20	8-30	12-40	
150.mic	7.10	0-10	0-10	0-10	

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Date: 27-04-2019

NC/PMC/W-13/2018-19/DW-CB7

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Comprehensive development work in ward no 13.}

Ref.: Material testing/W-13/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₃₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	20-04-19	27-04-19	07	22500	540	24.00	24.15
	002	"	"	"	"	555	24.67	
	003	"	"	"	"	535	23.78	

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